

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning:²

Approval granted
Approval extended
Approval refused
Approval withdrawn
Production definitively discontinued

of a vehicle type with regard to steering equipment pursuant to Regulation No. 79.

Approval No: **E24*79R01/05*0056*00**

Reason(s) for extension: N/A

- | | | |
|-----|---|---|
| 1. | Trade name or mark of vehicle: | <i>Iveco / System Truck</i> |
| 2. | Vehicle Type: | <i>ST ML225E 79R</i> |
| | Variant(s): | <i>See information document
ST_ML225E_79R for details.</i> |
| | Commercial description: | <i>225E</i> |
| 3. | Manufacturer's name and address: | <i>S.T. System Truck S.p.A.
Via Paesa, 28
IT-46048 Roverbella (MN)</i> |
| 4. | If applicable, name and address of manufacturer's representative: | <i>N/A</i> |
| 5. | Brief description of the steering equipment: | |
| 5.1 | Type of steering equipment: | <i>Power assisted steering</i> |
| 5.2 | Steering Control: | <i>Steering wheel</i> |
| 5.3 | Steering Transmission: | <i>Mechanical</i> |

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- 5.4 Steered Wheels: **1st Axle**
- 5.5 Energy Source: **Hydraulic assistance**

6. Results of tests, vehicle characteristics:

6.1 Steering effort required to achieve a turning circle of 12m radius with an intact system and 20m radius with a system in the failed condition:

6.1.1 Under normal conditions:

Turning circle	Steering effort	
12 m radius	Limit [daN]	Measured [daN]
Left	20	1.9
Right	20	2.0

6.1.2 After failure of special equipment:

Turning circle	Steering effort	
20 m radius	Limit [daN]	Measured [daN]
Left	45	38
Right	45	40

6.2 Other tests required by this regulation (pass/fail): **Pass**

6.3 Adequate documentation in accordance with Annex 6 was supplied in respect of the following parts of the steering system: **N/A**

7. Applicable only to towing vehicles

7.1. The towing vehicle is / is not¹ equipped with an electrical connector fulfilling the relevant requirements of Annex 7: **N/A**

7.2. The maximum current available is: **A²**

8. Applicable only to trailers

8.1. The steering system of the trailer fulfils the relevant provisions of Annex 7 to UN Regulation No. 79: **~~Yes~~/No**

8.2. The maximum current required for the trailer steering system is **A**

8.3. The trailer steering system is/is not² able to supply auxiliary equipment on the trailer with electrical energy: **N/A**

¹ Strike out what does not apply.

² As defined by the vehicle manufacturer – see paragraphs 2.3. and 3.1. of Annex 7 as appropriate.

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9. Vehicle submitted for approval on: **08.10.2020**
10. Technical service responsible for conducting approval tests: **FAKT S.r.l.,
Via Lithos, 53
I-25086 Rezzato (BS)**
11. Date of report issued by that service: **07.10.2020**
12. Number of report issued by that service: **IT20/1532 - 00**
13. Approval granted/~~extended/refused/withdrawn~~:³ **Granted.**
14. Position of the approval mark on the vehicle: **Adhesive plate on the front wall behind radiator grill.**
15. Place: **Dublin**
16. Date: **15th October, 2020.**
17. Signature: 
18. Annexed to this communication is a list of documents in the approval file deposited at the administration services having delivered the approval and which can be obtained on request.



³ Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).



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Index to the Information Package

Date of issue:	<i>15th October, 2020</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	<i>IT20/1532 – 00</i>
- date of issue:	<i>07.10.2020</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>ST_ML225E_79R</i>
- date of issue:	<i>20.07.2020</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>27 pages</i>



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Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

Test Report No.: IT20/1532 - 00
UN-R79-01

Type: ST ML225E 79R

Manufacturer: S.T. System Truck S.p.A.
IT-46048 Roverbella (MN)



Test Report

No. IT20/1532 Vers. 00

Agreement concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations (Revision 3)

Uniform provisions concerning the approval of vehicles with regard to steering equipment

UN-R79

of **01.06.1970**

as last amended by

series of amendments 01 – Supplement 05

of **09.02.2017**

Approval status

☒	Granting of a type approval No. E24*79R01/05*0056*00 (Allocated in advance)
☐	Extension to type approval no. ...
☐	Correction to type approval no. ...
☐	Documentation of test results

Structure of the Test Report:

- 0 : General
- 1 : Test vehicle(s)/-object(s)
- 2 : Test record
- 3 : Enclosures
- 4 : Statement of conformity

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Test Report No.: IT20/1532 - 00
UN-R79-01

Type: ST ML225E 79R

Manufacturer: S.T. System Truck S.p.A.
IT-46048 Roverbella (MN)



0 General

- 0.1 Make : Iveco / System Truck
- 0.2 Type : ST ML225E 79R
- 0.2.1 Variant(s)/version(s) : See information document
- 0.2.2 Commercial name(s) : See information document point 0.2.1.
- 0.3 Category of vehicle : N3
- 0.4 Name and address of the manufacturer : S.T. System Truck S.p.A.
Via Paesa, 28
IT-46048 Roverbella (MN)
- 0.5 Information folder :
Information document
- No : ST_ML225E_79R
- Date of issue : 20.07.2020
- Date of last change : not applicable
- 0.6 List of modifications : not applicable (basic test report)

Test Report No.: IT20/1532 - 00
UN-R79-01

Type: ST ML225E 79R

Manufacturer: S.T. System Truck S.p.A.
IT-46048 Roverbella (MN)



1 Test vehicle(s)/ - object(s):

- 1.1 Description: : representative vehicle
- 1.1.1 Type: : ST ML225E 79R
Variant: : ICDR115W
Version: : 2TS10ADBP2
VIN (Stage 1): : ZCFA81MM702705763
- 1.1.2 Gear box type: : ALLISON S3000
No. of gears: : 6
- 1.1.3 Number and arrangement of axles: : 3; 1st steering / non powered axle
2nd non steering / powered axle
3rd non steering / non powered axle
- 1.1.4 Wheelbase(s): : 1-2: 5850 mm
2-3: 1395 mm
- 1.1.5 Tyres
1st axle: : 305/70 R19,5 (single)
2nd axle: : 305/70 R19,5 (twin)
3rd axle: : 305/70 R19,5 (twin)
- 1.1.6 Kind of suspension: : 1st mechanical
2nd pneumatic
3rd pneumatic
- 1.1.7 Engine
Manufacturer: : FPT Industrial S.p.A.
Type: : F4AFE611K*N

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Type: ST ML225E 79R

Manufacturer: S.T. System Truck S.p.A.
IT-46048 Roverbella (MN)



1.1.8 Steering

Type of steering transmission : Mechanical
Linkage to wheels : Mechanical
Method of assistance : balls circulation hydraulic steering

1.1.9 Mass of vehicle during test(s)

	unladen	laden
Total:	--- kg	24360 kg
1 st axle:	--- kg	6250 kg
2 nd axle:	--- kg	9250 kg
3 rd axle:	--- kg	8860 kg

1.1.10 Maximum speed: : 90 km/h

2 Test record

2.1 Place of test : IT-Roverbella (MN)
Date of test : series of tests A : 01.10.2020

2.2 Parameter of the test area

Test track : Asphalt & concrete dry, ceramic tiles wet
Air temperature : series of tests A :
22 °C
Velocity of wind : 0,2 m/s

2.3 Equipment for measuring and testing : The equipment on which the tests were carried out, fulfilled the requirements of the above mentioned Regulation.

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2.4 Test results

Series of tests A

2.4.1 General provisions : Fulfilled
(see also point 2.4.6.)

2.4.2 Special provisions for trailers : Not applicable

2.4.3 Failure provisions and performance : Fulfilled
(see also point 2.4.6.)

2.4.4 Warning signals : Fulfilled

2.4.5 Provisions for the periodic technical inspection of steering equipment : Fulfilled

2.4.6 Provisions for motor vehicles

It shall be possible to leave a curve with a radius of 50 m at a tangent without unusual vibration in the steering equipment at 40 km/h : Fulfilled

Steering effort

Intact steering equipment : Turning radius: 12m
Steering control effort to the right: 20N
Steering control time to the right: 2.6s
Steering control effort to the left: 19N
Steering control time to the left: 2.5s

Failure in the steering equipment : Turning radius: 20m
Steering control effort to the right: 400N
Steering control time to the right: 4.9s
Steering control effort to the left: 380N
Steering control time to the left: 4.5s

2.4.7 Provisions for trailers : Not applicable

2.5 Remarks : not applicable

Test Report No.: IT20/1532 - 00
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Type: ST ML225E 79R

Manufacturer: S.T. System Truck S.p.A.
IT-46048 Roverbella (MN)



3 Enclosures:

1. Further enclosures : Information folder

4 Statement of conformity:

The information folder as mentioned under No. 0.5 and the type described therein are - i n c o m p l i a n c e - with the Test Specification mentioned above.

For the present type, the selected test vehicles together with the information documents of remaining variant/version, is representative.

The tests have been carried out, considering the relevant requirements of ISO/IEC 17025:2005.

This report includes pages 1 to 6.
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TEST LABORATORY

Rezzato, 07.10.2020
aa/ah

File No.:



PR-20/0387


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SCHEDA INFORMATIVA INFORMATION DOCUMENT

N°
Nr ST_ML225E_79R
del
of 20.07.2020

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	disegno complessivo: overall drawing:	55.01.00.0132 del 03.07.2020 rev. 0 of
	schema di funzionamento sistema di sterzo idraulico: diagram of hydraulic steering system:	5802551821 del 05.10.2018 rev. A0 of
	schema sterzata guida a sinistra: steering steering system LHD:	504162863 del 01.02.2018 rev. A1 of
	schema sterzata guida a sinistra: steering steering system LHD:	504162861 del 01.02.2018 rev. A1 of
	schema sterzata guida a destra: steering steering system RHD:	504162862 del 01.02.2018 rev. A1 of
	schema sterzata guida a destra: steering steering system RHD:	504162860 del 01.02.2018 rev. A1 of



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MOTIVI DELL'ESTENSIONE - RIEPILOGO REASONS FOR EXTENSION - HISTORY

Scheda informativa <i>Information document</i>	Est. <i>Ext.</i>	Rev. <i>Rev.</i>	Data <i>Date</i>	Descrizione <i>Description</i>
ST_ML225E_79R	00	00	20.07.2020	Nuova omologazione <i>New Approval</i>

0. DATI GENERALI GENERAL

- 0.1. Marca (denominazione commerciale del costruttore):
Make (trade name of manufacturer): Iveco / System Truck
- 0.2. Tipo sistema:
System type: ST ML225E 79R
- Tipo veicolo:
Vehicle type: vedere allegato n° 0.0
see annex Nr. 0.0
- Varianti:
Variants: vedere allegato n° 0.0
see annex Nr. 0.0
- Versioni:
Versions: vedere allegato n° 0.0
see annex Nr. 0.0
- 0.2.1. Designazione(i) commerciale(i) (se disponibile):
Commercial name(s) (if available): 225E
- 0.3. Mezzi di identificazione del tipo, se marcati sul veicolo:
Means of identification of type, if marked on the vehicle: numero di omologazione del tipo su targhetta
type approval number on manufacturer's plate
- 0.3.1. Posizione di tale indicazione:
Location of that marking: targhetta adesiva su parete frontale, dietro griglia radiatore
adhesive plate on the front wall behind radiator grill
- 0.4. Categoria del veicolo:
Category of vehicle: N3
- 0.5. Nome e indirizzo del costruttore:
Name and address of manufacturer: (fase 1)
(stage 1) Iveco S.p.A.
I-10156 Torino - via Puglia, 35
(fase 2)
(stage 2) S.T. System Truck S.p.A.
I-46048 Roverbella (MN) - Via Paesa, 28
- 0.8. Denominazione/i e indirizzo/i dello/gli stabilimento/i di montaggio:
Name(s) and address(es) of assembly plant(s): (fase 1)
(stage 1) Iveco S.p.A.
I-25126 Brescia - via Volturmo, 62
(fase 2)
(stage 2) S.T. System Truck S.p.A.
I-46048 Roverbella (MN) - Via Paesa, 28
- 0.9. Nome e indirizzo dell'eventuale rappresentante del costruttore:
Name and address of the manufacturer's representative (if any): non applicabile
not applicable
- 0.10. Posizione e modalità di fissaggio del marchio di omologazione sul veicolo:
Location and method of attachment of approval mark on the vehicle: targhetta adesiva su parete frontale, dietro griglia radiatore
adhesive plate on the front wall behind radiator grill

1. CARATTERISTICHE COSTRUTTIVE GENERALI DEL VEICOLO GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

- 1.1. Fotografie e/o disegni di un veicolo rappresentativo:
Photographs and/or drawings of a representative vehicle: 55.01.00.0132 del 03.07.2020
of



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Fotografia ¾ anteriore
Photo ¾ front



Fotografia ¾ posteriore
Photo ¾ rear

1.3.	Numero di assi e ruote: <i>Number of axles and wheels:</i>	3	assi, <i>axles,</i>	6 ruote <i>wheels</i>
1.3.1.	Numero e posizione degli assi con ruote gemellate: <i>Number and position of axles with twin wheels:</i>	2	assi, <i>axles,</i>	2° e 3° asse <i>2nd and 3rd axle</i>
1.3.2.	Numero e posizione degli assi sterzanti: <i>Number and position of steered axles:</i>	1	asse, <i>axle,</i>	1° asse <i>1st axle</i>
1.3.3.	Assi motore (numero, posizione, interconnessione): <i>Powered axles (number, position, interconnection):</i>	1	asse, <i>axle,</i>	2° asse, <i>2nd axle,</i> meccanica <i>mechanical</i>
1.8.	Guida: <i>Hand of drive:</i>	a destra <i>right</i>	oppure <i>or</i>	a sinistra <i>left</i>
2.	MASSE E DIMENSIONI (in kg e mm) MASSES AND DIMENSIONS (in kg and mm) (eventualmente con riferimento ai disegni) (refer to drawing where applicable)			
2.1.	Interasse o interassi (a pieno carico): <i>Wheelbase(s) (fully loaded):</i>	1° ÷ 2°: 5850 2° ÷ 3°: 1395		
2.3.	Carreggiata/e e larghezza/e degli assi <i>Axle track(s) and width(s)</i>			
2.3.1.	Carreggiata di ciascun asse sterzante: <i>Track of each steered axle:</i>	1°: 1945 ÷ 1970		
2.4.	Dimensioni del veicolo (fuori tutto) <i>Range of vehicle dimensions (overall)</i>			
2.4.1.	Per telaio non carrozzato <i>For chassis without bodywork</i>			
2.4.1.1.	Lunghezza: <i>Length:</i>	vedere punto 1.1. <i>see point 1.1.</i>		
2.4.1.2.	Larghezza: <i>Width:</i>	2600 (massima ammissibile / <i>maximum admissible</i>)		
2.4.1.4.	Sbalzo anteriore: <i>Front overhang:</i>	1362		
2.4.1.5.	Sbalzo posteriore: <i>Rear overhang:</i>	vedere punto 1.1. <i>see point 1.1.</i>		



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2.4.2.	Per telaio carrozzato <i>For chassis with bodywork</i>		
2.4.2.1.	Lunghezza: <i>Length:</i>	non ricorre <i>not applicable</i>	
2.4.2.2.	Larghezza: <i>Width:</i>	non ricorre <i>not applicable</i>	
2.4.2.4.	Sbalzo anteriore: <i>Front overhang:</i>	non ricorre <i>not applicable</i>	
2.4.2.5.	Sbalzo posteriore: <i>Rear overhang:</i>	non ricorre <i>not applicable</i>	
2.8.	Massa massima a pieno carico tecnicamente ammissibile dichiarata dal costruttore: <i>Technically permissible maximum laden mass stated by the manufacturer:</i>	22500	
2.9.	Massa massima tecn. ammissibile su ciascun asse: <i>Technically permissible maximum mass on each axle:</i>	vedere allegato n° <i>see annex Nr. 1</i>	1
6.	SOSPENSIONE SUSPENSION		
6.6.	Pneumatici e ruote <i>Tyres and wheels</i>		
6.6.1.	Combinazione/i pneumatico/cerchione: <i>Tyre/wheel combination(s):</i>		
	a) per gli pneumatici indicare la designazione della misura, l'indice della capacità di carico, il simbolo della categoria di velocità ed eventualmente la resistenza al rotolamento ai sensi della norma ISO 28580 <i>a) for tyres indicate size designation, load-capacity index, speed category symbol, rolling resistance in accordance with ISO 28580 (where applicable)</i>		
	b) per le ruote, indicare dimensioni del cerchione e dati della campanatura <i>b) for wheels indicate rim size(s) and off-set(s)</i>		
6.6.1.1.	Assi <i>Axels</i>		
6.6.1.1.1.	Asse 1: <i>Axle 1:</i>	vedere allegato n° <i>see annex Nr. 2</i>	2
6.6.1.1.2.	Asse 2: <i>Axle 2:</i>	vedere allegato n° 2 <i>see annex Nr. 2</i>	
6.6.1.1.3.	Asse 3: <i>Axle 3:</i>	vedere allegato n° 2 <i>see annex Nr. 2</i>	
6.6.3.	Pressione/i degli pneumatici raccomandata dal fabbricante del veicolo: <i>Ture pressure(s) as recommended by the vehicle manufacturer:</i>		
6.6.3.1.	1° asse: <i>1st axle:</i>	vedere 6.6.1.1.1. <i>see 6.6.1.1.1.</i>	
6.6.3.2.	2° asse: <i>2nd axle:</i>	vedere 6.6.1.1.2. <i>see 6.6.1.1.2.</i>	
6.6.3.3.	3° asse: <i>3rd axle:</i>	vedere 6.6.1.1.3. <i>see 6.6.1.1.3.</i>	



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7. EQUIPAGGIAMENTO STERZO STEERING

- 7.1. Schemi dell'asse o degli assi sterzanti:
Steering system diagram:
- | Disegno n°/ Drawing No. | guida / drive |
|-------------------------------|-----------------|
| 504162863 del / of 01.02.2018 | sinistra / left |
| 504162861 del / of 01.02.2018 | sinistra / left |
| 504162862 del / of 01.02.2018 | destra / right |
| 504162860 del / of 01.02.2018 | destra / right |
- 7.2. Trasmissione e comando
Transmission and control
- 7.2.1. Tipo di trasmissione dello sterzo (se del caso, precisare parte anteriore e posteriore):
Type of steering transmission (specify for front and rear, if applicable):
- volante collegato mediante un albero alla scatola dello sterzo che trasmette la forza dello sterzo alle ruote anteriori (1° asse) mediante leveraggi e giunti a snodo
steering wheel connected by a universal joint shaft to the steering gear-box which transmits the steering force to the front wheels (1st axle) through leverages and articulated joints
- 7.2.2. Trasmissione alle ruote (compresi i sistemi diversi da quelli meccanici; se del caso, precisare parte anteriore e post.):
Linkage to wheels (including other than mechanical means; specify for front and rear, if applicable):
- vedere punto 7.2.1.
see item 7.2.1.
- 7.2.3. Tipo degli eventuali servocomandi:
Method of assistance, if any:
- 1° asse: idroguida a circolazione di sfere (ZF 8095 oppure TRW Calzoni TAS 55 oppure Bosch 8095)
1st axle: balls circulation hydraulic steering (ZF 8095 or TRW Calzoni TAS 55 or Bosch 8095)
- 7.2.3.1. Sistema e schema di funzionamento:
Marca e tipo:
Method - Diagram of operation:
Mark - Type:
- idraulico, schema: 5802551821 del 05.10.2018
ZF 8098 oppure Bosch 8098
hydraulic, see layout: 5802551821 of 05.10.2018
ZF 8098 or Bosch 8098
- 7.2.4. Schema complessivo dell'equipaggiamento sterzo illustrante la posizione sul veicolo dei vari dispositivi di sterzata:
Diagram of the steering equipment as a whole, showing the position on the vehicle of the various devices influencing its steering behaviour:
- vedere punto 7.1.
see point 7.1.
- 7.2.5. Schema del comando sterzo
Schematic diagram of the steering control
- 7.3. Angolo massimo di sterzata delle ruote
Maximum steering angle
- 7.3.1. A destra:
Numero di giri del volante (o dati equivalenti):
To the right:
Number of turns of the steering wheel (or equivalent data)
- 49°
2,56
- 7.3.2. A sinistra:
Numero di giri del volante (o dati equivalenti):
To the left:
Number of turns of the steering wheel (or equivalent data):
- 49°
2,56

Revisione 0 del 20.07.2020
Revision of

x La Ditta

(ing. Paolo MARTINI)

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Ruolo: Direttore tecnico
Position: Technical Director



SCHEDA INFORMATIVA **INFORMATION DOCUMENT**

All n° **0.0**
Annex Nr
del
of **20.07.2020**

Caratteristiche Characteristics	Descrizione Description	Tipo Type	Varianti Variants	Versioni Versions
Nome trasformatore Coverter's company name	S.T. System Truck S.p.A.	ST		
Tipo di veicolo della fase II Type of stage II	Autotelaio, cat. N3, 3 assi, massa complessiva 22500 kg Chassis, cat. N3, 3 axles, maximum mass 22500 kg	ML225E		
Fase di completamento Extent of build	Incompleto / Incomplete		I	
Designazione commerciale (veicolo 1° fase) Commercial name (1 st stage vehicle)	225E (150E)		CC	
	225E (160E)		CD	
Massa massima tecnicamente ammissibile (fase 1) Technical admissible maximum mass (stage 1)	22500 kg (13000 kg)		L	
	22500 kg (14000 kg)		M	
	22500 kg (15000 kg)		N	
	22500 kg (15990 kg)		P	
	22500 kg (16000 kg)		R	
Assi sterzanti (n°, posizione) Steering axle (No., position)	1, 1° 1, 1 st			1
Assi motore (n°, posizione) Powered axles (No., position)	1, 2° 1, 2 nd			1
Tipo motore Engine type	F4AFE411C			4
	F4AFE611A, F4AFE611D, F4AFE611E o/or F4AFE611K			5
Potenza del motore Engine power	152 kW			P
	162 kW			R
	185 kW			S
	235 kW			V
	207 kW			W
Classificazione ADR ADR classification	EXII, EXIII, FL, AT (ADR 2019)			1
	senza equipaggiamento ADR / without ADR equipment			2



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Caratteristiche Characteristics	Descrizione Description	Tipo Type	Varianti Variants	Versioni Versions
Massa tecnicamente ammissibile su 1° asse <i>Technically permissible mass on 1st axle</i>	5300 kg			P
	5800 kg			S
	6100 kg			T
Massa tecnicamente ammissibile su 2° asse e 3° asse <i>Technically permissible mass on 2nd and 3rd axle</i>	2: 9500 kg - 3: 9500 kg			N
	2: 10000 kg - 3: 10000 kg			O
	2: 10700 kg - 3: 10700 kg			Q
	2: 10900 kg - 3: 10900 kg			R
	2: 11000 kg - 3: 11000 kg			S
Massa massima tecnicamente ammissibile della combinazione <i>Technically permissible mass of combination</i>	Non atto / <i>not towing</i>			1
	26000 kg			5
	32500 kg			8
	35000 kg			9
	36000 kg			B
Massa max a carico amm. per l'imm. / circolazione <i>Intended registration / in service max permissible laden mass</i>	Non ricorre / <i>not applicable</i>			0
Uscita gas di scarico <i>Exhaust exit</i>	laterale sinistra / <i>side left</i>			A
Direttiva emissioni <i>Directive emission</i>	EURO VI-D			D
Tipo di cambio <i>Type of gear</i>	Manuale / <i>manual</i>			A
	Automatico / <i>automatic</i>			B
Tipo di sospensione <i>Type of suspension</i>	1°: sosp. meccanica o pneumatica / <i>mechanical or air suspension</i>			P
	2°: sosp. pneumatica / <i>air suspension</i>			
	3°: sosp. pneumatica / <i>air suspension</i>			
Configurazione e numero porte <i>Configuration and number of doors</i>	2 (cab. MLC o/or MLL)			2



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20.07.2020

PARTE II PART II

Possibili combinazioni (tipo / varianti / versioni)

Permissible combinations (type / variants / versions)

Variante Variant	Versione Version
I CC L 1 1 4 P	1 P N 1 0 A D A P 2 2 5
I CC L 1 1 4 P	1 P N 1 0 A D B P 2 2
I CC L 1 1 5 R	1 P N 1 0 A D A P 2 2 5
I CC L 1 1 5 R	1 P N 1 0 A D B P 2 2
I CC L 1 1 5 S	1 P N 1 0 A D A P 2 2 8
I CC L 1 1 5 S	1 P N 1 0 A D B P 2 2
I CC L 1 1 5 V	1 P N 1 0 A D A P 2 2 8
I CC L 1 1 5 V	1 P N 1 0 A D B P 2 2
I CC L 1 1 5 W	1 P N 1 0 A D A P 2 2 8
I CC L 1 1 5 W	1 P N 1 0 A D B P 2 2
I CC M 1 1 4 P	1 P Q 1 0 A D A P 2 2 5
I CC M 1 1 4 P	1 P Q 1 0 A D B P 2 2
I CC M 1 1 5 R	1 P Q 1 0 A D A P 2 2 5
I CC M 1 1 5 R	1 P Q 1 0 A D B P 2 2
I CC M 1 1 5 S	1 P Q 1 0 A D A P 2 2 5
I CC M 1 1 5 S	1 P Q 1 0 A D B P 2 2
I CC M 1 1 5 V	1 P Q 1 0 A D A P 2 2 9
I CC M 1 1 5 V	1 P Q 1 0 A D B P 2 2
I CC M 1 1 5 W	1 P Q 1 0 A D A P 2 2 9
I CC M 1 1 5 W	1 P Q 1 0 A D B P 2 2

Variante Variant

I	CC	N	1	1	4	P
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I	CC	N	1	1	4	P
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I	CC	N	1	1	5	R
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I	CC	N	1	1	5	R
---	----	---	---	---	---	---

I	CC	N	1	1	5	S
---	----	---	---	---	---	---

I	CC	N	1	1	5	S
---	----	---	---	---	---	---

I	CC	N	1	1	5	V
---	----	---	---	---	---	---

I	CC	N	1	1	5	V
---	----	---	---	---	---	---

I	CC	N	1	1	5	W
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I	CC	N	1	1	5	W
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I	CD	L	1	1	4	P
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I	CD	L	1	1	4	P
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I	CD	L	1	1	5	R
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I	CD	L	1	1	5	R
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I	CD	L	1	1	5	S
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I	CD	L	1	1	5	S
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I	CD	L	1	1	5	V
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I	CD	L	1	1	5	V
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I	CD	L	1	1	5	W
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I	CD	L	1	1	5	W
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I	CD	M	1	1	4	P
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I	CD	M	1	1	4	P
---	----	---	---	---	---	---

I	CD	M	1	1	5	R
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I	CD	M	1	1	5	R
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I	CD	M	1	1	5	S
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Versione Version

1	P	Q	1	0	A	D	A	P	2
2			5						

1	P	Q	1	0	A	D	B	P	2
2									

1	P	Q	1	0	A	D	A	P	2
2			5						

1	P	Q	1	0	A	D	B	P	2
2									

1	P	Q	1	0	A	D	A	P	2
2			8						

1	P	Q	1	0	A	D	B	P	2
2									

1	P	Q	1	0	A	D	A	P	2
2			9						

1	P	Q	1	0	A	D	B	P	2
2									

1	P	Q	1	0	A	D	A	P	2
2			9						

1	P	Q	1	0	A	D	B	P	2
2									

1	T	O	1	0	A	D	A	P	2
2			5						

1	T	O	1	0	A	D	B	P	2
2									

1	T	O	1	0	A	D	A	P	2
2			5						

1	T	O	1	0	A	D	B	P	2
2									

1	T	O	1	0	A	D	A	P	2
2			8						

1	T	O	1	0	A	D	B	P	2
2									

1	T	O	1	0	A	D	A	P	2
2			8						

1	T	O	1	0	A	D	B	P	2
2									

1	T	O	1	0	A	D	A	P	2
2			8						

1	T	O	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			5						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			5						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			8						

Variante Variant

I	CD	M	1	1	5	S
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I	CD	M	1	1	5	V
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I	CD	M	1	1	5	V
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I	CD	M	1	1	5	W
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I	CD	M	1	1	5	W
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I	CD	N	1	1	4	P
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I	CD	N	1	1	4	P
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I	CD	N	1	1	5	R
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I	CD	N	1	1	5	R
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I	CD	N	1	1	5	S
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I	CD	N	1	1	5	S
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I	CD	N	1	1	5	V
---	----	---	---	---	---	---

I	CD	N	1	1	5	V
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I	CD	N	1	1	5	W
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I	CD	N	1	1	5	W
---	----	---	---	---	---	---

I	CD	P	1	1	4	P
---	----	---	---	---	---	---

I	CD	P	1	1	4	P
---	----	---	---	---	---	---

I	CD	P	1	1	4	P
---	----	---	---	---	---	---

I	CD	P	1	1	4	P
---	----	---	---	---	---	---

I	CD	P	1	1	5	R
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I	CD	P	1	1	5	R
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I	CD	P	1	1	5	R
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I	CD	P	1	1	5	R
---	----	---	---	---	---	---

I	CD	P	1	1	5	S
---	----	---	---	---	---	---

I	CD	P	1	1	5	S
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Versione Version

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			9						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			9						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			5						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			5						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			8						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			9						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			9						

1	T	S	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			5						

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
2			5						

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			5						

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
2			5						

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2			8						

1	T	S	1	0	A	D	B	P	2
2									

Variante Variant

I	CD	P	1	1	5	S
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I	CD	P	1	1	5	S
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I	CD	P	1	1	5	V
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I	CD	P	1	1	5	V
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I	CD	P	1	1	5	V
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I	CD	P	1	1	5	V
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I	CD	P	1	1	5	W
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I	CD	P	1	1	5	W
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I	CD	P	1	1	5	W
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I	CD	P	1	1	5	W
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I	CD	P	1	1	5	W
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I	CD	P	1	1	5	W
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I	CD	R	1	1	4	P
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I	CD	R	1	1	4	P
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I	CD	R	1	1	4	P
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I	CD	R	1	1	4	P
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I	CD	R	1	1	5	R
---	----	---	---	---	---	---

I	CD	R	1	1	5	R
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I	CD	R	1	1	5	R
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I	CD	R	1	1	5	R
---	----	---	---	---	---	---

I	CD	R	1	1	5	S
---	----	---	---	---	---	---

I	CD	R	1	1	5	S
---	----	---	---	---	---	---

I	CD	R	1	1	5	S
---	----	---	---	---	---	---

I	CD	R	1	1	5	S
---	----	---	---	---	---	---

I	CD	R	1	1	5	V
---	----	---	---	---	---	---

Versione Version

1	S	R	1	0	A	D	A	P	2
2				8					

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2				8					

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
2				8					

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
				9					

2	T	S	1	0	A	D	A	P	2
				B					

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
				9					

2	S	R	1	0	A	D	A	P	2
				B					

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2				5					

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
2				5					

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2				5					

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
2				5					

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2				8					

1	T	S	1	0	A	D	B	P	2
2									

1	S	R	1	0	A	D	A	P	2
2				8					

1	S	R	1	0	A	D	B	P	2
2									

1	T	S	1	0	A	D	A	P	2
2				8					

Variante
Variant

I | CD | R | 1 | 1 | 5 | V

I | CD | R | 1 | 1 | 5 | V

I | CD | R | 1 | 1 | 5 | V

I | CD | R | 1 | 1 | 5 | W

I | CD | R | 1 | 1 | 5 | W

I | CD | R | 1 | 1 | 5 | W

I | CD | R | 1 | 1 | 5 | W

I | CD | R | 1 | 1 | 5 | W

I | CD | R | 1 | 1 | 5 | W

Versione
Version

1 | T | S | 1 | 0 | A | D | B | P | 2
2 |

1 | S | R | 1 | 0 | A | D | A | P | 2
2 | 8 |

1 | S | R | 1 | 0 | A | D | B | P | 2
2 |

1 | T | S | 1 | 0 | A | D | A | P | 2
9 |

2 | T | S | 1 | 0 | A | D | A | P | 2
B |

1 | T | S | 1 | 0 | A | D | B | P | 2
2 |

1 | S | R | 1 | 0 | A | D | A | P | 2
9 |

2 | S | R | 1 | 0 | A | D | A | P | 2
B |

1 | S | R | 1 | 0 | A | D | B | P | 2
2 |



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Punto Item	Variante Variant	Versione Version	Descrizione Description		
			1°:	2°:	3°:
2.9.	????????	?PN??????	5300 kg	9500 kg	9500 kg
	????????	?PQ??????	5300 kg	10700 kg	10700 kg
	????????	?SR??????	5800 kg	10900 kg	10900 kg
	????????	?TO??????	6100 kg	10000 kg	10000 kg
	????????	?TS??????	6100 kg	11000 kg	11000 kg



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Variente Variant	Versione Version	Massa Mass	1° asse 1 st axle	2° asse 2 nd axle	3° asse 3 rd axle	1° asse 1 st axle	2° asse 2 nd axle	3° asse 3 rd axle	T2	X _{min} (+)	L _{max} 24.1.1.	S _{max} 24.1.5.	1° asse 1 st axle	2° asse 2 nd axle	3° asse 3 rd axle	T2	X _{max} (+)	L _{min} 24.1.1.	S _{min} 24.1.5.	1° asse 1 st axle	2° asse 2 nd axle	3° asse 3 rd axle
I ?? ? 1 1 4 P	? P N ? 0 A D A P 2	6380	3290	1620	1470	5300	9500	9500	18000	-206	13054	4447	4500	9000	9000	18000	729	11183	2576	5300	8600	8600
I ?? ? 1 1 4 P	? P N ? 0 A D A P 2	6360	3400	1480	1480	5300	9500	9500	18000	-251	12565	3958	4500	9000	9000	18000	689	10685	2078	5300	8600	8600
I ?? ? 1 1 4 P	? P Q ? 0 A D A P 2	6230	3290	1470	1470	5300	10700	10700	18000	-211	13063	4456	4500	9000	9000	18000	723	11197	2590	5300	8600	8600
I ?? ? 1 1 4 P	? P Q ? 0 A D A P 2	6360	3400	1480	1480	5300	10700	10700	18000	-251	12565	3958	4500	9000	9000	18000	689	10685	2078	5300	8600	8600
I ?? ? 1 1 4 P	? S R ? 0 A D A P 2	6230	3290	1470	1470	5800	10900	10900	18000	-211	13063	4456	4500	9000	9000	18000	902	10837	2230	5800	8350	8350
I ?? ? 1 1 4 P	? S R ? 0 A D A P 2	6360	3400	1480	1480	5800	10900	10900	18000	-251	12565	3958	4500	9000	9000	18000	870	10322	1715	5800	8350	8350
I ?? ? 1 1 4 P	? T O ? 0 A D A P 2	6230	3290	1470	1470	6100	10000	10000	18000	-211	13063	4456	4500	9000	9000	18000	1010	10621	2014	6100	8200	8200
I ?? ? 1 1 4 P	? T O ? 0 A D A P 2	6360	3400	1480	1480	6100	10000	10000	18000	-251	12565	3958	4500	9000	9000	18000	979	10105	1498	6100	8200	8200
I ?? ? 1 1 4 P	? T S ? 0 A D A P 2	6230	3290	1470	1470	6100	11000	11000	18000	-211	13063	4456	4500	9000	9000	18000	1010	10621	2014	6100	8200	8200
I ?? ? 1 1 4 P	? T S ? 0 A D A P 2	6360	3400	1480	1480	6100	11000	11000	18000	-251	12565	3958	4500	9000	9000	18000	979	10105	1498	6100	8200	8200
I ?? ? 1 1 5 R	? P N ? 0 A D A P 2	6321	3385	1468	1468	5300	9500	9500	18000	-246	13135	4528	4500	9000	9000	18000	692	11257	2650	5300	8600	8600
I ?? ? 1 1 5 R	? P N ? 0 A D A P 2	6451	3495	1478	1478	5300	9500	9500	18000	-287	12637	4030	4500	9000	9000	18000	658	10746	2139	5300	8600	8600
I ?? ? 1 1 5 R	? P Q ? 0 A D A P 2	6321	3385	1468	1468	5300	10700	10700	18000	-246	13135	4528	4500	9000	9000	18000	692	11257	2650	5300	8600	8600
I ?? ? 1 1 5 R	? P Q ? 0 A D A P 2	6451	3495	1478	1478	5300	10700	10700	18000	-287	12637	4030	4500	9000	9000	18000	658	10746	2139	5300	8600	8600
I ?? ? 1 1 5 R	? S R ? 0 A D A P 2	6321	3385	1468	1468	5800	10900	10900	18000	-246	13135	4528	4500	9000	9000	18000	873	10896	2289	5800	8350	8350
I ?? ? 1 1 5 R	? S R ? 0 A D A P 2	6451	3495	1478	1478	5800	10900	10900	18000	-287	12637	4030	4500	9000	9000	18000	840	10382	1775	5800	8350	8350
I ?? ? 1 1 5 R	? T O ? 0 A D A P 2	6321	3385	1468	1468	6100	10000	10000	18000	-246	13135	4528	4500	9000	9000	18000	982	10679	2072	6100	8200	8200
I ?? ? 1 1 5 R	? T O ? 0 A D A P 2	6451	3495	1478	1478	6100	10000	10000	18000	-287	12637	4030	4500	9000	9000	18000	950	10163	1556	6100	8200	8200
I ?? ? 1 1 5 R	? T S ? 0 A D A P 2	6321	3385	1468	1468	6100	11000	11000	18000	-246	13135	4528	4500	9000	9000	18000	982	10679	2072	6100	8200	8200
I ?? ? 1 1 5 R	? T S ? 0 A D A P 2	6451	3495	1478	1478	6100	11000	11000	18000	-287	12637	4030	4500	9000	9000	18000	950	10163	1556	6100	8200	8200
I ?? ? 1 1 5 S	? P N ? 0 A D A P 2	6380	3410	1485	1485	5300	9500	9500	18000	-255	13152	4545	4500	9000	9000	18000	686	11270	2663	5300	8600	8600
I ?? ? 1 1 5 S	? P N ? 0 A D A P 2	6510	3520	1495	1495	5300	9500	9500	18000	-296	12654	4047	4500	9000	9000	18000	651	10760	2153	5300	8600	8600
I ?? ? 1 1 5 S	? P Q ? 0 A D A P 2	6380	3410	1485	1485	5300	10700	10700	18000	-255	13152	4545	4500	9000	9000	18000	686	11270	2663	5300	8600	8600
I ?? ? 1 1 5 S	? P Q ? 0 A D A P 2	6510	3520	1495	1495	5300	10700	10700	18000	-296	12654	4047	4500	9000	9000	18000	651	10760	2153	5300	8600	8600
I ?? ? 1 1 5 S	? S R ? 0 A D A P 2	6380	3410	1485	1485	5800	10900	10900	18000	-255	13152	4545	4500	9000	9000	18000	867	10907	2300	5800	8350	8350
I ?? ? 1 1 5 S	? S R ? 0 A D A P 2	6510	3520	1495	1495	5800	10900	10900	18000	-296	12654	4047	4500	9000	9000	18000	834	10394	1787	5800	8350	8350
I ?? ? 1 1 5 S	? T O ? 0 A D A P 2	6380	3410	1485	1485	6100	10000	10000	18000	-255	13152	4545	4500	9000	9000	18000	976	10690	2083	6100	8200	8200
I ?? ? 1 1 5 S	? T O ? 0 A D A P 2	6510	3520	1495	1495	6100	10000	10000	18000	-296	12654	4047	4500	9000	9000	18000	944	10174	1567	6100	8200	8200
I ?? ? 1 1 5 S	? T S ? 0 A D A P 2	6380	3410	1485	1485	6100	11000	11000	18000	-255	13152	4545	4500	9000	9000	18000	976	10690	2083	6100	8200	8200
I ?? ? 1 1 5 S	? T S ? 0 A D A P 2	6510	3520	1495	1495	6100	11000	11000	18000	-296	12654	4047	4500	9000	9000	18000	944	10174	1567	6100	8200	8200
I ?? ? 1 1 5 V	? P N ? 0 A D A P 2	6480	3480	1500	1500	5300	9500	9500	18000	-281	13203	4596	4500	9000	9000	18000	665	11313	2706	5300	8600	8600
I ?? ? 1 1 5 V	? P N ? 0 A D A P 2	6610	3590	1510	1510	5300	9500	9500	18000	-323	12707	4100	4500	9000	9000	18000	630	10803	2196	5300	8600	8600
I ?? ? 1 1 5 V	? P Q ? 0 A D A P 2	6480	3480	1500	1500	5300	10700	10700	18000	-281	13203	4596	4500	9000	9000	18000	665	11313	2706	5300	8600	8600
I ?? ? 1 1 5 V	? P Q ? 0 A D A P 2	6610	3590	1510	1510	5300	10700	10700	18000	-323	12707	4100	4500	9000	9000	18000	630	10803	2196	5300	8600	8600
I ?? ? 1 1 5 V	? S R ? 0 A D A P 2	6480	3480	1500	1500	5800	10900	10900	18000	-281	13203	4596	4500	9000	9000	18000	847	10948	2341	5800	8350	8350
I ?? ? 1 1 5 V	? S R ? 0 A D A P 2	6610	3590	1510	1510	5800	10900	10900	18000	-323	12707	4100	4500	9000	9000	18000	814	10435	1828	5800	8350	8350
I ?? ? 1 1 5 V	? T O ? 0 A D A P 2	6480	3480	1500	1500	6100	10000	10000	18000	-281	13203	4596	4500	9000	9000	18000	957	10729	2122	6100	8200	8200
I ?? ? 1 1 5 V	? T O ? 0 A D A P 2	6610	3590	1510	1510	6100	10000	10000	18000	-323	12707	4100	4500	9000	9000	18000	924	10214	1607	6100	8200	8200
I ?? ? 1 1 5 V	? T S ? 0 A D A P 2	6480	3480	1500	1500	6100	11000	11000	18000	-281	13203	4596	4500	9000	9000	18000	957	10729	2122	6100	8200	8200
I ?? ? 1 1 5 V	? T S ? 0 A D A P 2	6610	3590	1510	1510	6100	11000	11000	18000	-323	12707	4100	4500	9000	9000	18000	924	10214	1607	6100	8200	8200
I ?? ? 1 1 5 W	? P N ? 0 A D A P 2	6520	3470	1630	1420	5300	9500	9500	18000	-275	13193	4586	4500	9000	9000	18000	670	11302	2695	5300	8600	8600
I ?? ? 1 1 5 W	? P N ? 0 A D A P 2	6650	3580	1640	1430	5300	9500	9500	18000	-317	12697	4090	4500	9000	9000	18000	635	10792	2185	5300	8600	8600
I ?? ? 1 1 5 W	? P Q ? 0 A D A P 2	6520	3470	1630	1420	5300	10700	10700	18000	-275	13193	4586	4500	9000	9000	18000	670	11302	2695	5300	8600	8600
I ?? ? 1 1 5 W	? P Q ? 0 A D A P 2	6650	3580	1640	1430	5300	10700	10700	18000	-317	12697	4090	4500	9000	9000	18000	635	10792	2185	5300	8600	8600
I ?? ? 1 1 5 W	? S R ? 0 A D A P 2	6520	3470	1630	1420	5800	10900	10900	18000	-275	13193	4586	4500	9000	9000	18000	853	10936	2329	5800	8350	8350
I ?? ? 1 1 5 W	? S R ? 0 A D A P 2	6650	3580	1640	1430	5800	10900	10900	18000	-317	12697	4090	4500	9000	9000	18000	819	10423	1816	5800	8350	8350
I ?? ? 1 1 5 W	? T O ? 0 A D A P 2	6520	3470	1630	1420	6100	10000	10000	18000	-275	13193	4586	4500	9000	9000	18000	963	10716	2109	6100	8200	8200
I ?? ? 1 1 5 W	? T O ? 0 A D A P 2	6650	3580	1640	1430	6100	10000	10000	18000	-317	12697	4090	4500	9000	9000	18000	930	10202	1595	6100	8200	8200
I ?? ? 1 1 5 W	? T S ? 0 A D A P 2	6520	3470	1630	1420	6100	11000	11000	18000	-275	13193	4586	4500	9000	9000	18000	963	10716	2109	6100	8200	8200
I ?? ? 1 1 5 W	? T S ? 0 A D A P 2	6650	3580	1640	1430	6100	11000	11000	18000	-317	12697	4090	4500	9000	9000	18000	930	10202	1595	6100	8200	8200

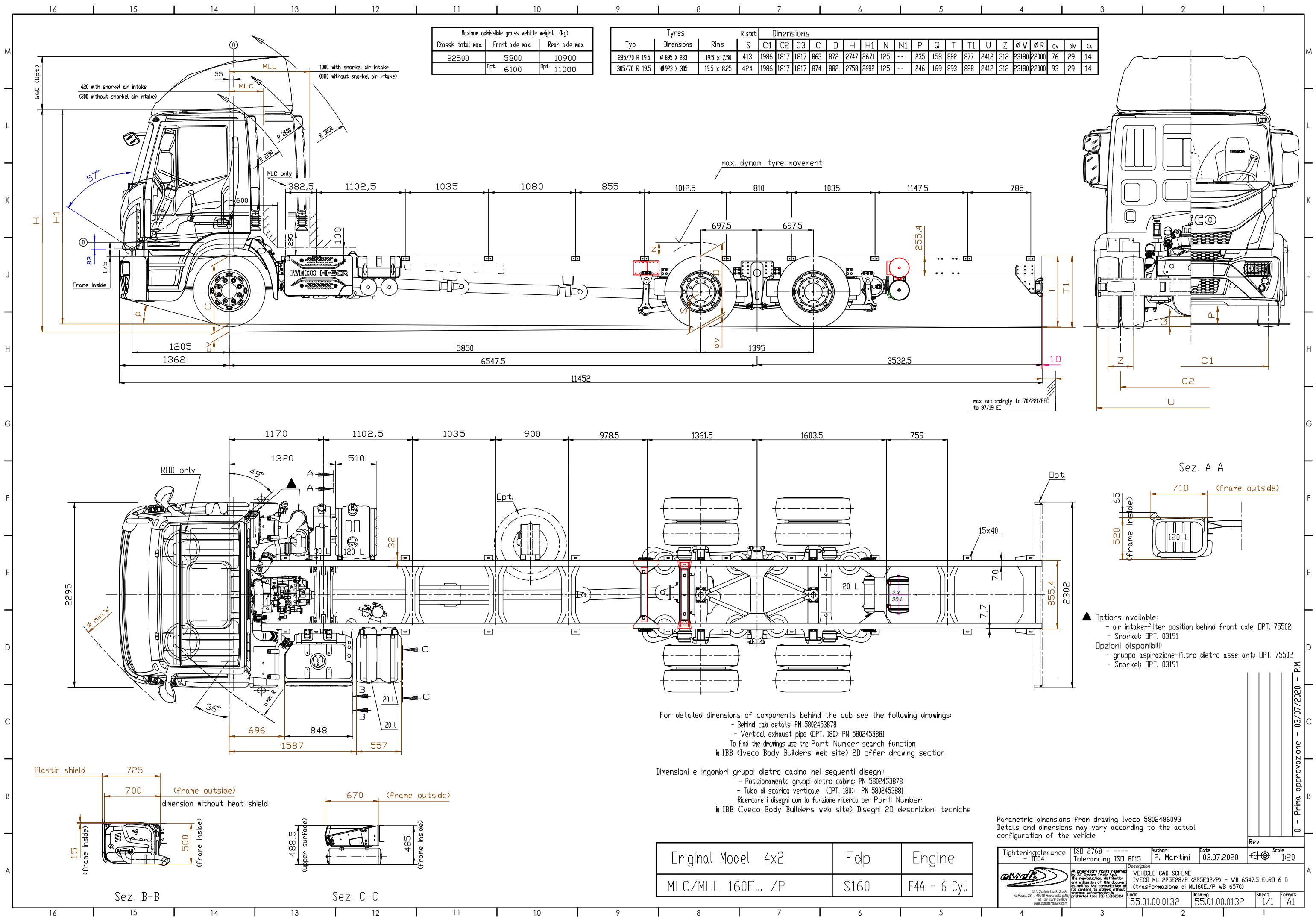
(+): Posizioni estreme ammissibili possibili del baricentro del carico utile (dichiarate dal costruttore) rispetto al 2° asse.
Extreme permissible possible positions of the centre of gravity of the payload (declared by manufacturer), relative to 2nd axle.



SCHEDA INFORMATIVA INFORMATION DOCUMENT

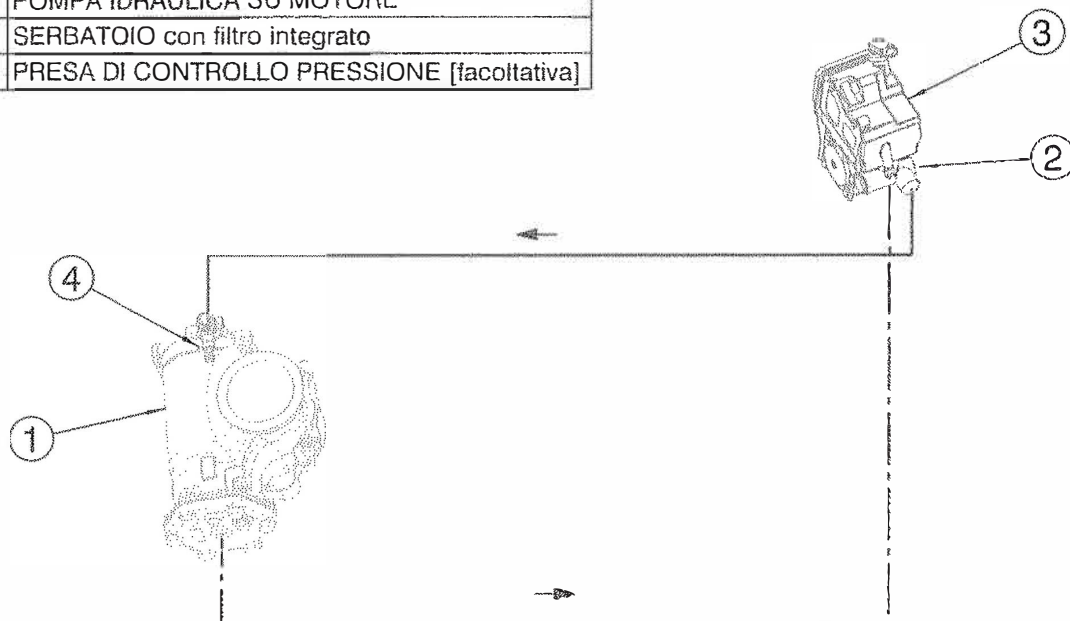
All n° **2**
Annex Nr
del **20.07.2020**
of

Punto Item	Variante Variant	Versione Version	Descrizione Description	Dimensione Size	Indice di carico minimo Load capacity index	Indice di velocità Speed index	Cerchio Rim size	Campanatura Offset(s)	Pressione Pressure
6.6.1.1.1.	?????????	?P?????????	285/70 R19,5	142 / --	G	19,5 x 7,50	155 / 142	7,0	bar
			305/70 R19,5	142 / --	G	19,5 x 8,25	170 / 157	6,8	bar
	?????????	?S?????????	285/70 R19,5	145 / --	G	19,5 x 7,50	155 / 142	7,8	bar
			305/70 R19,5	145 / --	G	19,5 x 8,25	170 / 157	7,5	bar
	?????????	?T?????????	285/70 R19,5	147 / --	G	19,5 x 7,50	155 / 142	8,2	bar
			305/70 R19,5	147 / --	G	19,5 x 8,25	170 / 157	8,0	bar
6.6.1.1.2.	?????????	??N?????????	285/70 R19,5	-- / 139	G	19,5 x 7,50	155 / 142	6,75	bar
			305/70 R19,5	-- / 139	G	19,5 x 8,25	170 / 157	6,50	bar
	?????????	??O?????????	285/70 R19,5	-- / 140	G	19,5 x 7,50	155 / 142	7,00	bar
			305/70 R19,5	-- / 140	G	19,5 x 8,25	170 / 157	6,75	bar
	?????????	??Q?????????	285/70 R19,5	-- / 143	G	19,5 x 7,50	155 / 142	7,50	bar
			305/70 R19,5	-- / 143	G	19,5 x 8,25	170 / 157	7,25	bar
6.6.1.1.3.	?????????	??R?????????	285/70 R19,5	-- / 143	G	19,5 x 7,50	155 / 142	7,75	bar
			305/70 R19,5	-- / 143	G	19,5 x 8,25	170 / 157	7,50	bar
	?????????	??S?????????	285/70 R19,5	-- / 144	G	19,5 x 7,50	155 / 142	7,75	bar
			305/70 R19,5	-- / 144	G	19,5 x 8,25	170 / 157	7,50	bar
	?????????	??N?????????	285/70 R19,5	-- / 139	G	19,5 x 7,50	155 / 142	6,75	bar
			305/70 R19,5	-- / 139	G	19,5 x 8,25	170 / 157	6,50	bar
6.6.1.1.3.	?????????	??O?????????	285/70 R19,5	-- / 140	G	19,5 x 7,50	155 / 142	7,00	bar
			305/70 R19,5	-- / 140	G	19,5 x 8,25	170 / 157	6,75	bar
	?????????	??Q?????????	285/70 R19,5	-- / 143	G	19,5 x 7,50	155 / 142	7,50	bar
			305/70 R19,5	-- / 143	G	19,5 x 8,25	170 / 157	7,25	bar
	?????????	??R?????????	285/70 R19,5	-- / 143	G	19,5 x 7,50	155 / 142	7,75	bar
			305/70 R19,5	-- / 143	G	19,5 x 8,25	170 / 157	7,50	bar
6.6.1.1.3.	?????????	??S?????????	285/70 R19,5	-- / 144	G	19,5 x 7,50	155 / 142	7,75	bar
			305/70 R19,5	-- / 144	G	19,5 x 8,25	170 / 157	7,50	bar

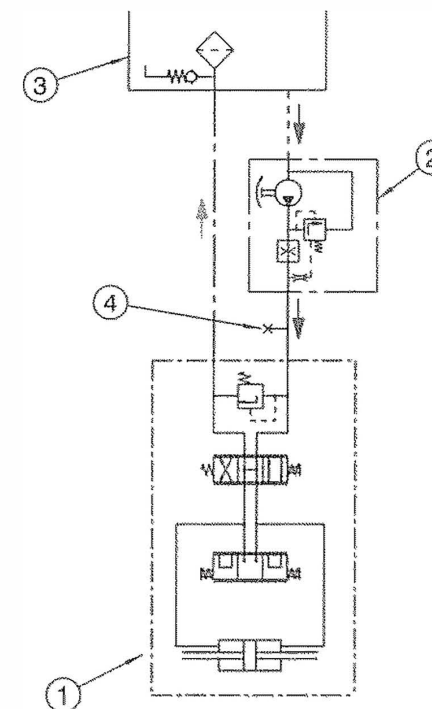


Item	Description
1	STEERING GEAR
2	VANE PUMP engine-driven
3	STEERING OIL-TANK with integrated filter element
4	PRESSURE CHECK POINT [optional]

POS.	DESCRIZIONE
1	IDROGUIDA
2	POMPA IDRAULICA SU MOTORE
3	SERBATOIO con filtro integrato
4	PRESA DI CONTROLLO PRESSIONE [facoltativa]

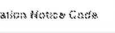


SYMBOLIC FIGURE

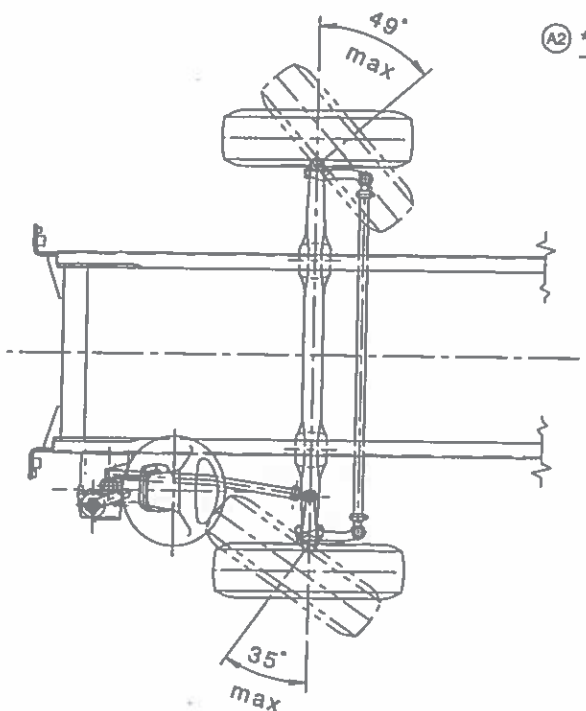
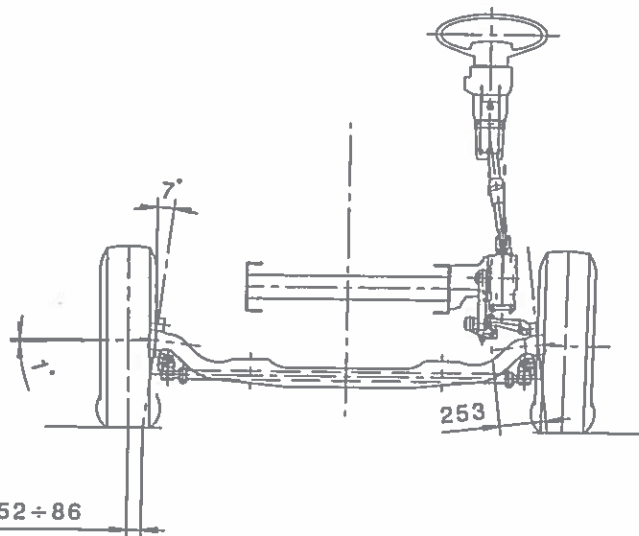
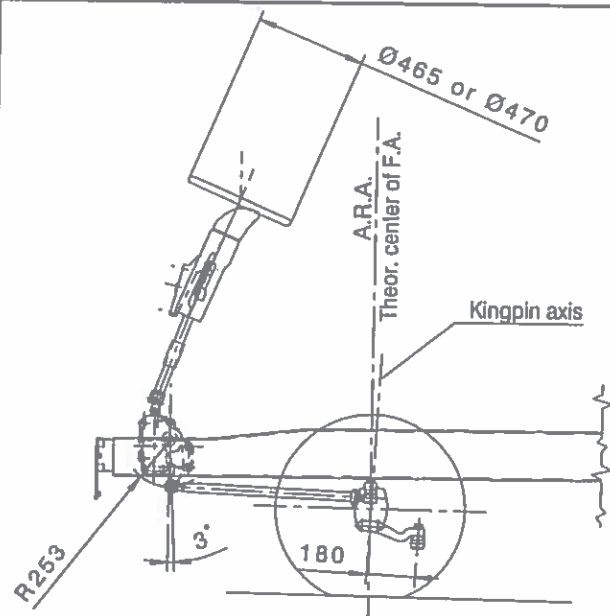


-----	RETURN LINE (TUBAZIONE DI RITORNO)	Ø min = 12x15
=====	DELIVERY LINE (TUBAZIONE DI MANDATA)	Ø min = 10x12
- - - - -	INTAKE LINE (TUBAZIONE DI ASPIRAZIONE)	integrated in vane pump

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Model EUROCARGO									
Scale		N.A.						Designation	Lex Code 184310
	Name	Date	A0	13ASPHM010092		05/10/18	SV	DIAGRAM OF HYDRAULIC STEERING SYSTEM	
Drawn by	Savoldi V.	24/09/2018	Index	Modification Notice Code		Date	Name		
Checked by	Savoldi V.	04/10/2018							
Approved		Venni S.		Department		E092		No	5802551821 DD 50-6624
								Sheet	A3

E24*79R01/05*0056*00



Caratteristiche guida Steering gearbox characteristics	
Tipo:	8095 (LHD)
Type:	
Marca:	ZF / BOSCH
Brand:	
Rapporto:	18.1+21.4
Ratio:	

OR

Caratteristiche guida Steering gearbox characteristics	
Tipo:	TAS 55 (LHD)
Type:	
Marca:	TRW CALZONI
Brand:	
Rapporto:	20.4:1
Ratio:	

A2 * Il braccio a terra dipende dai pneumatici e dalla misura dei cerchi.
The kingpin offset depends on tires and rims size.

Angolo di incidenza: $2,3^\circ (-1,5^\circ + 2^\circ) / 3^\circ (\pm 1,5^\circ)$ [il valore dipende dal tipo di sospensione veicolare]
Caster angle: [value depends on vehicle suspension type]

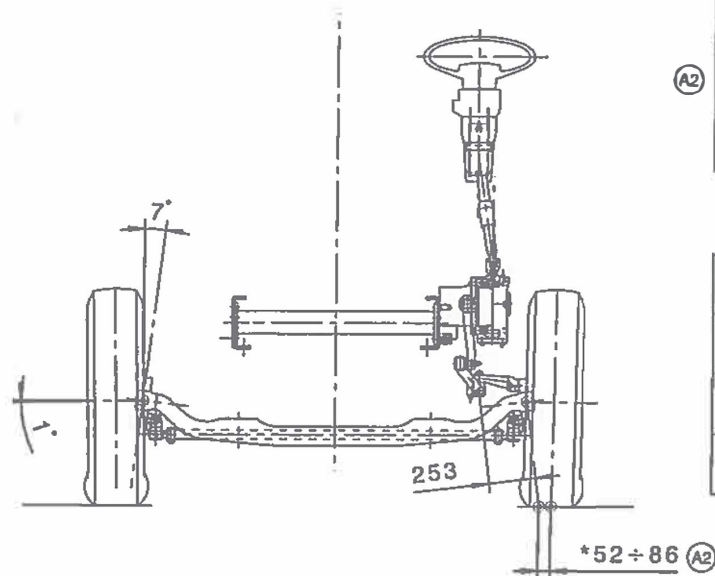
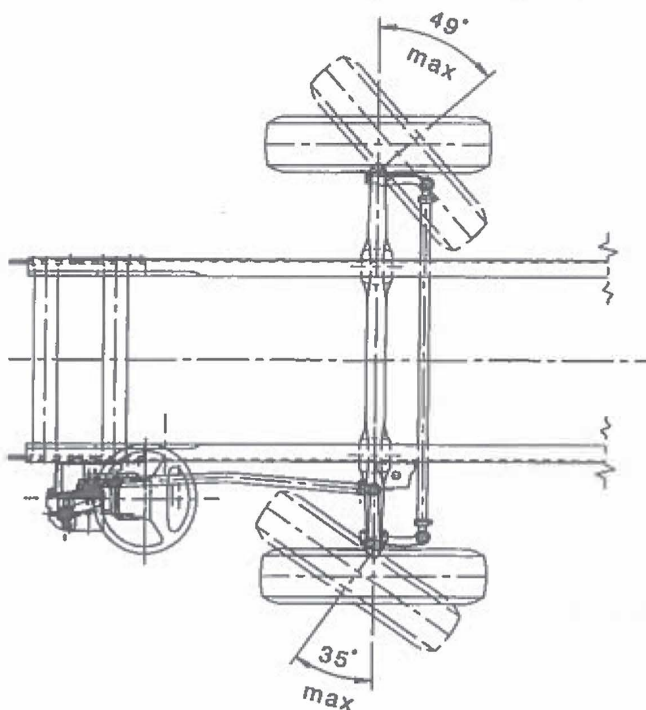
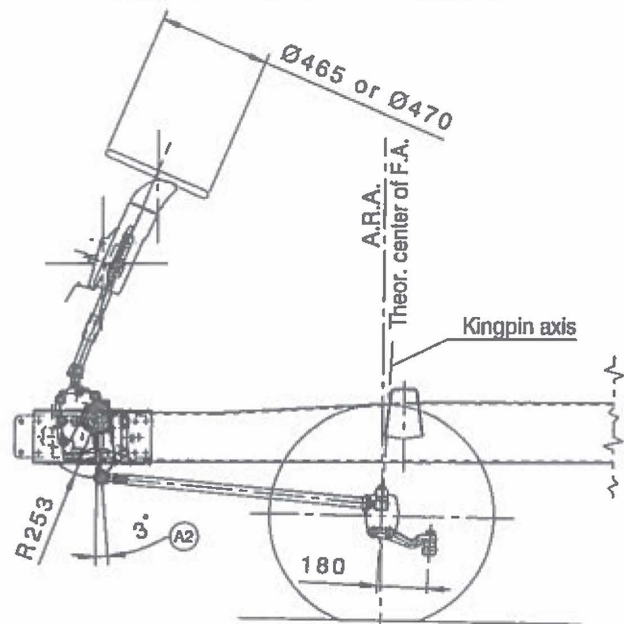
L'angolo di sterzata dipende dalla misura dei pneumatici, dalla corsa massima della leva della scatola guida e dal tipo di sospensione anteriore.
Steering angle depends on tires size, on max lever stroke of the steering gearbox and on front suspension type.

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Model 120E - 160E CC120E - CC160E									
Scale 1:20				A1 13ASAWM002092 01-02-18 SV		Designation		Lex Code 163780	
Name		Date A0 11ATW02025092 25-07-07 GM		DIAGRAM					
Drawn by SAVOLDI V. 30/01/18		Under		Modification Notice Code		Date		Rev	
Checked by SAVOLDI V. 30/01/18		STEERING SYSTEM VEHICLES LHD 120E/160E AND CHASSIS CC120E/CC160E WITH SHORT FRONT OVERHANG EUROCARIO							
Approved		Department				No 504162863 DD 50-6624		Sheet 1/1	
VENNI		E092							

IG63X/E6-R79-13-01

A1) Aggiornata misura diametro volante guida (mm465 oppure mm470) A2) Updated steering gearbox table due to change of supplier name from ZF to Bosch. Rearranged notes.
Modifications Changed range for kingpin offset.



Caratteristiche guida Steering gearbox characteristics

Tipo:	8095 (LHD)
Type:	
Marca:	ZF/BOSCH
Brand:	
Rapporto:	18.1+21.4
Ratio:	

OR

Caratteristiche guida Steering gearbox characteristics

Tipo:	TAS 55 (LHD)
Type:	
Marca:	TRW CALZONI
Brand:	
Rapporto:	20.4 : 1
Ratio:	

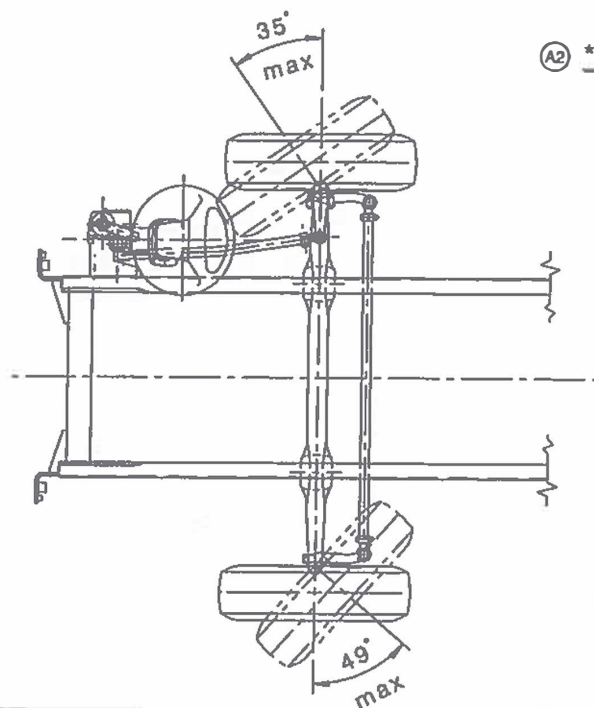
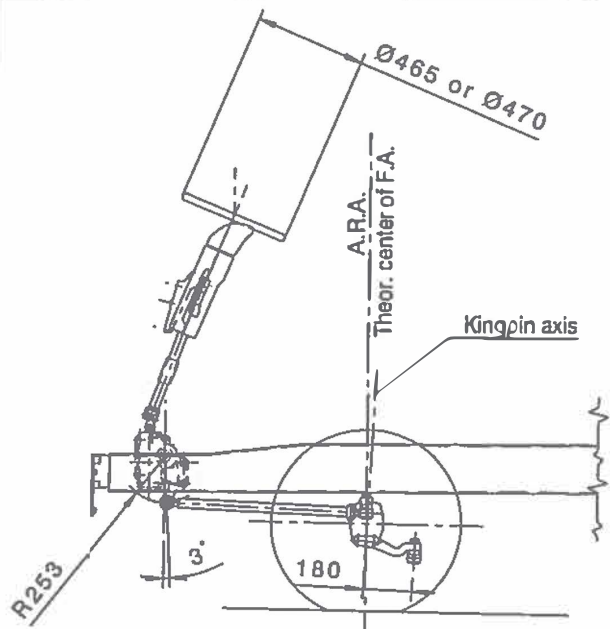
- (A2) * Il braccio a terra dipende dai pneumatici e dalla misura dei cerchi.
The kingpin offset depends on tires and rims size.

Angolo di incidenza: $2,3^\circ (-1,5^\circ + 2^\circ) / 3^\circ (+1,5^\circ)$ [il valore dipende dal tipo di sospensione veicolare]
Caster angle: [value depends on vehicle suspension type]

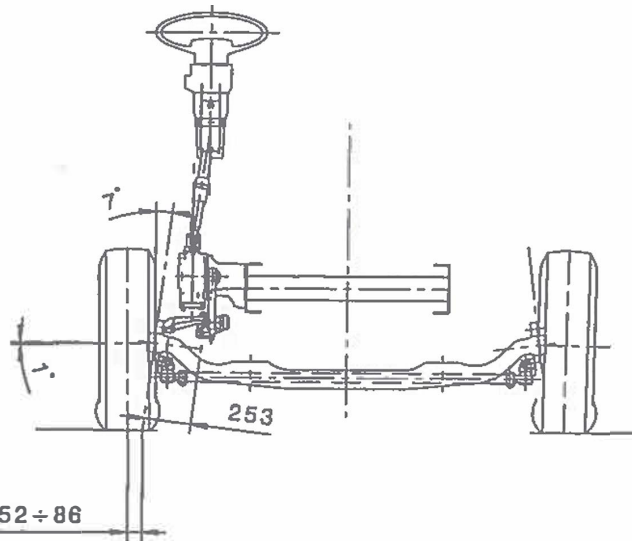
L'angolo di sterzata dipende dalla misura dei pneumatici, dalla corsa massima della leva della scatola guida e dal tipo di sospensione anteriore.
Steering angle depends on tires size, on max lever stroke of the steering gearbox and on front suspension type.

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Model		CC120E - CC160E			
Scale	1:20				
		A1	13ASAWM002092	01-02-18	SV
		A2	11ATW02026092	28-07-07	GM
Drawn by	SAVOLDI V.	Date	29/01/18	Indet	Modification Notice Code
Checked by	SAVOLDI V.	Date	29/01/18		
Approved	VENNI	Department	E092		
Designation		Lex Code 183780			
DIAGRAM					
STEERING SYSTEM VEHICLES LHD CHASSIS COM					
CC120E/CC160E WITH LONG FRONT OVERHANG EURO CARGO					
No	504162861 DD 50-6624	Sheet		1/1	



A2 * 52 ÷ 86



Caratteristiche guida Steering gearbox characteristics

Tipo:	8095 (RHD)
Type:	
Marca:	ZF/BOSCH
Brand:	
Rapporto:	18.1+21.4
Ratio:	

OR

Caratteristiche guida Steering gearbox characteristics

Tipo:	TAS 55 (RHD)
Type:	
Marca:	TRW CALZONI
Brand:	
Rapporto:	20.4:1
Ratio:	

- A2 * Il braccio a terra dipende dai pneumatici e dalla misura dei cerchi.
The kingpin offset depends on tires and rims size.

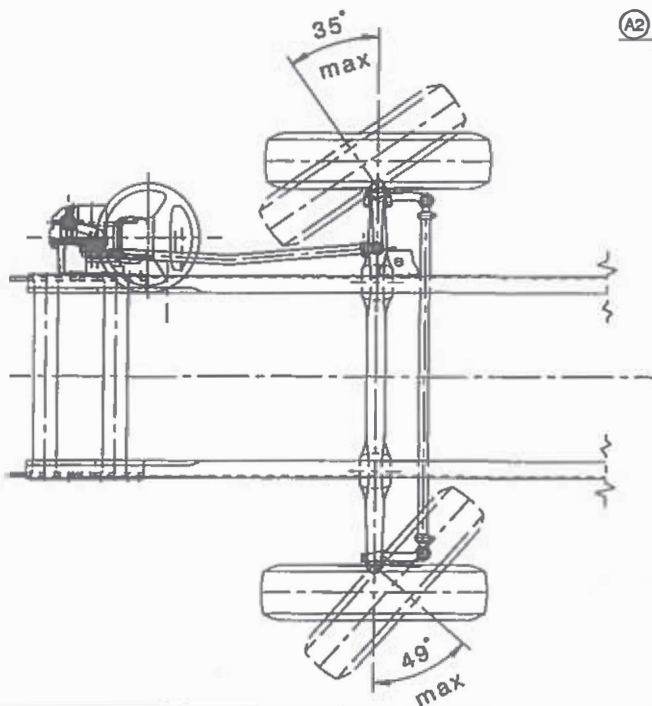
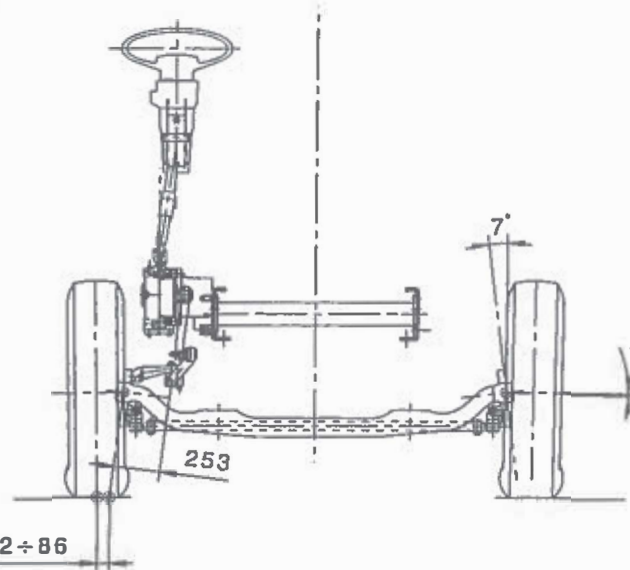
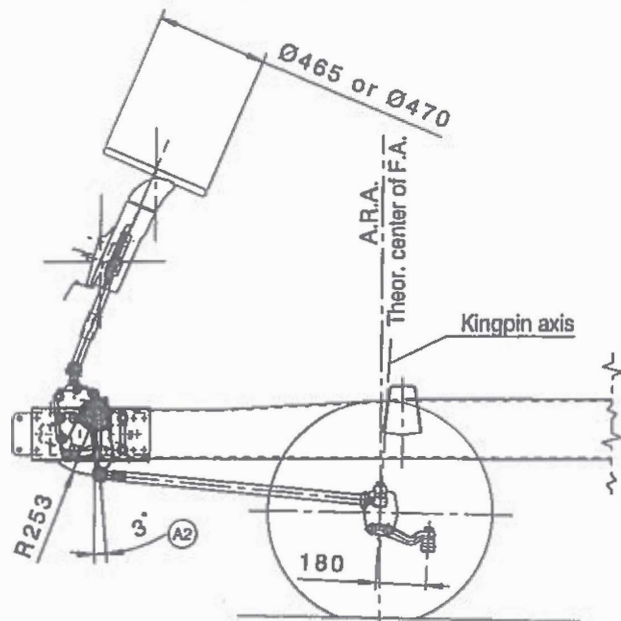
Angolo di incidenza: 2,3° (-1,5°+2°) / 3° (+1,5°/-2°) [Il valore dipende dal tipo di sospensione veicolare]
Caster angle: [value depends on vehicle suspension type]

L'angolo di sterzata dipende dalla misura dei pneumatici, dalla corsa massima della leva della scatola guida e dal tipo di sospensione anteriore.
Steering angle depends on tires size, on max lever stroke of the steering gearbox and on front suspension type.

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Model		120E - 160E		CC120E - CC160E					
Scale	1:20							Designation	Lex Code 183780
			A1	13ASAWM002092	01-02-18	SV			
			A0	11ATW02025092	25-07-07	GM		DIAGRAM	
Draw by	SAVOLDI V.	30/01/18	Index	Modification Notice Code	Date	Page		STEERING SYSTEM VEHICLES RHD 120E/160E AND CHASSIS COM	
Checked by	SAVOLDI V.	30/01/18						CC120E/CC160E WITH SHORT FRONT OVERHANG EURO CARGO	
Approved	VENNI	E092				No	504162862 DD 50-6624	Sheet	1/1

A1) Aggiornato misura diametro volante guida (mm) Ø465 oppure mm Ø470 A2) Updated steering gearbox table due to change of supplier name from ZF to Bosch. Rearranged notes.
Modifications Change range for kingpin offset.



Caratteristiche guida Steering gearbox characteristics

Tipo:	8095 (RHD)
Type:	
Marca:	ZF/BOSCH
Brand:	
Rapporto:	18.1+21.4
Ratio:	

OR

Caratteristiche guida Steering gearbox characteristics

Tipo:	TAS 55 (RHD)
Type:	
Marca:	TRW CALZONI
Brand:	
Rapporto:	20.4:1
Ratio:	

- * Il braccio a terra dipende dai pneumatici e dalla misura dei cerchi.
The kingpin offset depends on tires and rims size.

Angolo di incidenza: $2,3^\circ (-1,5^\circ + 2^\circ) / 3^\circ (-1,5^\circ + 2^\circ)$ [Il valore dipende dal tipo di sospensione veicolare]
Caster angle: [value depends on vehicle suspension type]

L'angolo di sterzata dipende dalla misura dei pneumatici, dalla corsa massima della leva della scatola guida e dal tipo di sospensione anteriore.
Steering angle depends on tires size, on max lever stroke of the steering gearbox and on front suspension type.

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Model		CC120E - CC180E			
Scale	1:20				
		A1	13ASAWM002092	01-02-18	SV
Name	Date	A0	11ATW02028092	28-07-07	GM
Drawn by	SAVOLDI V.	28/01/18			
Checked by	SAVOLDI V.	28/01/18			
Approved	VENNI	Deposited	E092	No	
				504162860 DD 50-6624	
				Sheet	
				1/1	

A1) Aggiornato misure diametro volante guida (mm465 oppure mm470) A2) Updated steering gearbox table due to change of supplier name from ZF to Bosch. Rearranged notes. Modifications